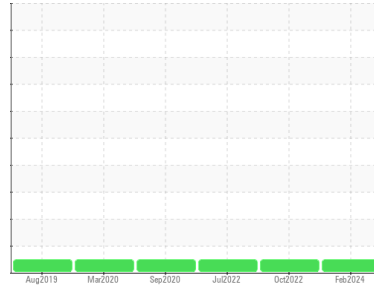


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**373948**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0100490</b>	PCA0053853	PCA0053863
Sample Date	Client Info		<b>07 Feb 2024</b>	21 Oct 2022	27 Jul 2022
Machine Age	mls	Client Info	<b>312640</b>	222220	199000
Oil Age	mls	Client Info	<b>29000</b>	15000	26000
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>68</b>	51	66
Chromium	ppm	ASTM D5185m >20	<b>3</b>	2	3
Nickel	ppm	ASTM D5185m >4	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	6	6
Lead	ppm	ASTM D5185m >40	<b>3</b>	<1	2
Copper	ppm	ASTM D5185m >330	<b>3</b>	2	3
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>24</b>	60	19
Barium	ppm	ASTM D5185m 0	<b>34</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>68</b>	68	62
Manganese	ppm	ASTM D5185m 0	<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m 950	<b>646</b>	893	946
Calcium	ppm	ASTM D5185m 1050	<b>1137</b>	1560	1565
Phosphorus	ppm	ASTM D5185m 995	<b>875</b>	966	1150
Zinc	ppm	ASTM D5185m 1180	<b>1091</b>	1286	1439
Sulfur	ppm	ASTM D5185m 2600	<b>2624</b>	3238	4005

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	6
Sodium	ppm	ASTM D5185m	<b>3</b>	1	4
Potassium	ppm	ASTM D5185m >20	<b>4</b>	3	5

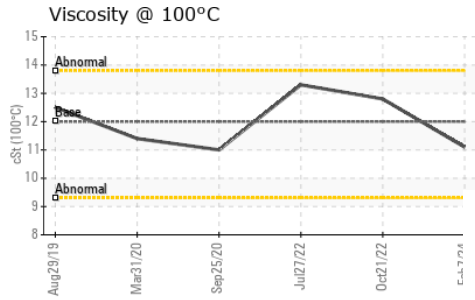
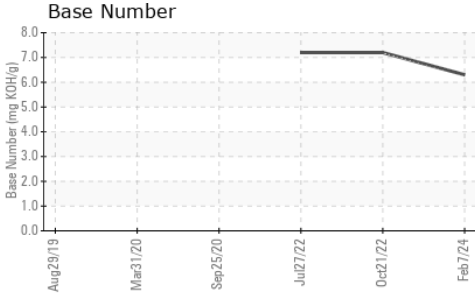
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	1.1	1.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>15.1</b>	17.2	18.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>28.1</b>	32.8	33.3

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>28.5</b>	32.8	34.4
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.3</b>	7.2	7.2

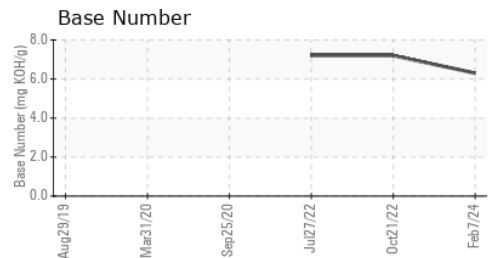
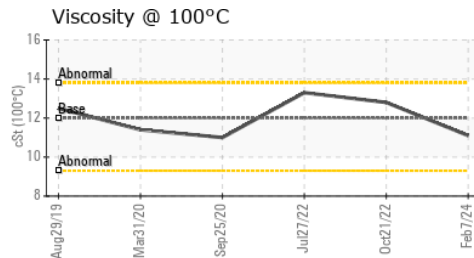
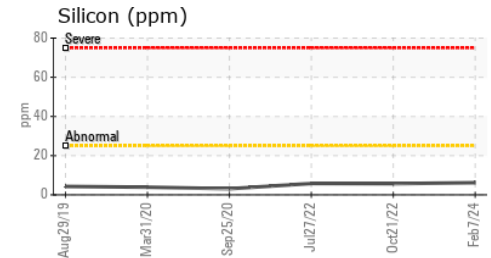
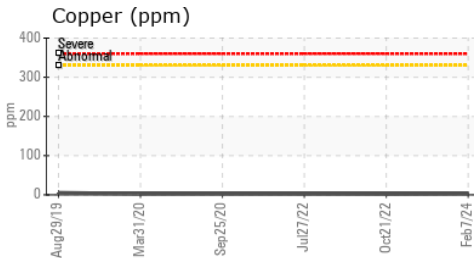
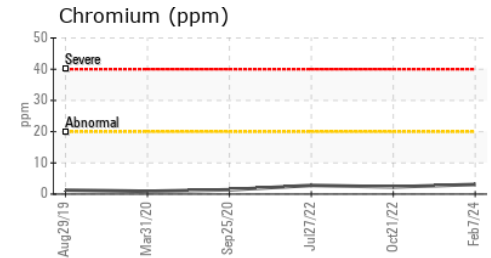
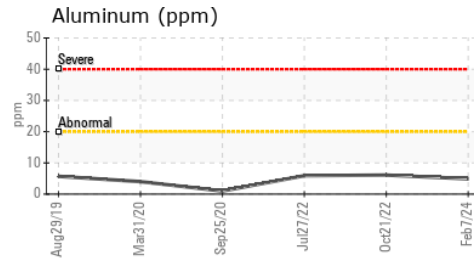
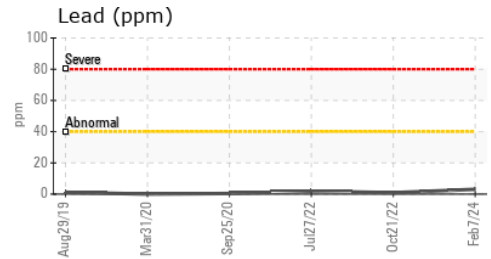
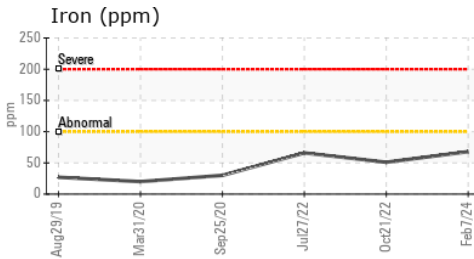
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.1</b>	12.8	13.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0100490 **Received** : 26 Feb 2024  
**Lab Number** : 06099851 **Tested** : 27 Feb 2024  
**Unique Number** : 10898081 **Diagnosed** : 27 Feb 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #124**  
 3200 7TH STREET & PACKER AVENUE  
 PHILADELPHIA, PA  
 US 19148  
 Contact: PHIL EINSPAHR  
 peinspahr@millertransgroup.com  
 T: (215)644-8326  
 F: (215)913-0719

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)